

33318.ST25.PCT.txt
SEQUENCE LISTING

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33318.ST25.PCT.txt

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33318.ST25.PCT.txt

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33318.ST25.PCT.txt

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33318.ST25.PCT.txt

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33318.ST25.PCT.txt

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35 40 45

Cys Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys
50 55 60

Asp Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr
65 70 75 80

Ser Glu Val Lys Gln Leu Ile Lys Ala Ile Gln Leu Thr Tyr Asn Pro
85 90 95

Asp Glu Ser Ser Lys Pro Asn Met Ile Asp Ala Ala Thr Leu Lys Ser
100 105 110

33318.ST25.PCT.txt

Arg Lys Met Leu Glu Glu Ile Met Lys Tyr Glu Ala Ser Ile Leu Thr
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His Asp Ser Ser Ile Arg Tyr Leu Gln Glu Ile Tyr Asn Ser Asn Asn
 130 135 140

Gln Lys Ile Val Asn Leu Lys Glu Lys Val Ala Gln Leu Glu Ala Gln
 145 150 155 160

Cys Gln Glu Pro Cys Lys Asp Thr Val Gln Ile His Asp Ile Thr Gly
 165 170 175

Lys Asp Cys Gln Asp Ile Ala Asn Lys Gly Ala Lys Gln Ser Gly Leu
 180 185 190

Tyr Phe Ile Lys Pro Leu Lys Ala Asn Gln Gln Phe Leu Val Tyr Cys
 195 200 205

Glu Ile Asp Gly Ser Gly Asn Gly Trp Thr Val Phe Gln Lys Arg Leu
 210 215 220

Asp Gly Ser Val Asp Phe Lys Lys Asn Trp Ile Gln Tyr Lys Glu Gly
 225 230 235 240

Phe Gly His Leu Ser Pro Thr Gly Thr Thr Glu Phe Trp Leu Gly Asn
 245 250 255

Glu Lys Ile His Leu Ile Ser Thr Gln Ser Ala Ile Pro Tyr Ala Leu
 260 265 270

Arg Val Glu Leu Glu Asp Trp Asn Gly Arg Thr Ser Thr Ala Asp Tyr
 275 280 285

Ala Met Phe Lys Val Gly Pro Glu Ala Asp Lys Tyr Arg Leu Thr Tyr
 290 295 300

Ala Tyr Phe Ala Gly Gly Asp Ala Gly Asp Ala Phe Asp Gly Phe Asp
 305 310 315 320

Phe Gly Asp Asp Pro Ser Asp Lys Phe Phe Thr Ser His Asn Gly Met
 325 330 335

Gln Phe Ser Thr Trp Asp Asn Asp Asn Asp Lys Phe Glu Gly Asn Cys
 340 345 350

Ala Glu Gln Asp Gly Ser Gly Trp Trp Met Asn Lys Cys His Ala Gly
 355 360 365

His Leu Asn Gly Val Tyr Tyr Gln Gly Gly Thr Tyr Ser Lys Ala Ser
 370 375 380

33318.ST25.PCT.txt

Thr Pro Asn Gly Tyr Asp Asn Gly Ile Ile Trp Ala Thr Trp Lys Thr
385 390 395 400

Arg Trp Tyr Ser Met Lys Lys Thr Thr Met Lys Ile Ile Pro Phe Asn
405 410 415

Arg Leu Thr Ile Gly Glu Gly Gln Gln His His Leu Gly Gly Ala Lys
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Pro Glu Asp Asp Leu
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Lys Asn Gly Ala Ala Ala Asp Ile Ile Phe Leu Val Asp Ser Ser Trp
35 40 45

Thr Ile Gly Glu Glu His Phe Gln Leu Val Arg Glu Phe Leu Tyr Asp
50 55 60

Val Val Lys Ser Leu Ala Val Gly Glu Asn Asp Phe His Phe Ala Leu
65 70 75 80

Val Gln Phe Asn Gly Asn Pro His Thr Glu Phe Leu Leu Asn Thr Tyr
85 90 95

Arg Thr Lys Gln Glu Val Leu Ser His Ile Ser Asn Met Ser Tyr Ile
100 105 110

Gly Gly Thr Asn Gln Thr Gly Lys Gly Leu Glu Tyr Ile Met Gln Ser
115 120 125

His Leu Thr Lys Ala Ala Gly Ser Arg Ala Gly Asp Gly Val Pro Gln
130 135 140

Val Ile Val Val Leu Thr Asp Gly His Ser Lys Asp Gly Leu Ala Leu
145 150 155 160

33318.ST25.PCT.txt

Pro Ser Ala Glu Leu Lys Ser Ala Asp Val Asn Val Phe Ala Ile Gly
 165 170 175

Val Glu Asp Ala Asp Glu Gly Ala Leu Lys Glu Ile Ala Ser Glu Pro
 180 185 190

Leu Asn Met His Met Phe Asn Leu Glu Asn Phe Thr Ser Leu His Asp
 195 200 205

Ile Val Gly Asn Leu Val Ser Cys Val His Ser Ser Val Ser Pro Glu
 210 215 220

Arg Ala Gly Asp Thr Glu Thr Leu Lys Asp Ile Thr Ala Gln Asp Ser
 225 230 235 240

Ala Asp Ile Ile Phe Leu Ile Asp Gly Ser Asn Asn Thr Gly Ser Val
 245 250 255

Asn Phe Ala Val Ile Leu Asp Phe Leu Val Asn Leu Leu Glu Lys Leu
 260 265 270

Pro Ile Gly Thr Gln Gln Ile Arg Val Gly Val Val Gln Phe Ser Asp
 275 280 285

Glu Pro Arg Thr Met Phe Ser Leu Asp Thr Tyr Ser Thr Lys Ala Gln
 290 295 300

Val Leu Gly Ala Val Lys Ala Leu Gly Phe Ala Gly Gly Glu Leu Ala
 305 310 315 320

Asn Ile Gly Leu Ala Leu Asp Phe Val Val Glu Asn His Phe Thr Arg
 325 330 335

Ala Gly Gly Ser Arg Val Glu Glu Gly Val Pro Gln Val Leu Val Leu
 340 345 350

Ile Ser Ala Gly Pro Ser Ser Asp Glu Ile Arg Tyr Gly Val Val Ala
 355 360 365

Leu Lys Gln Ala Ser Val Phe Ser Phe Gly Leu Gly Ala Gln Ala Ala
 370 375 380

Ser Arg Ala Glu Leu Gln His Ile Ala Thr Asp Asp Asn Leu Val Phe
 385 390 395 400

Thr Val Pro Glu Phe Arg Ser Phe Gly Asp Leu Gln Glu Lys Leu Leu
 405 410 415

Pro Tyr Ile Val Gly Val Ala Gln Arg His Ile Val Leu Lys Pro Pro
 420 425 430

33318.ST25.PCT.txt

Thr Ile Val Thr Gln Val Ile Glu Val Asn Lys Arg Asp Ile Val Phe
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Leu Val Asp Gly Ser Ser Ala Leu Gly Leu Ala Asn Phe Asn Ala Ile
 450 455 460

Arg Asp Phe Ile Ala Lys Val Ile Gln Arg Leu Glu Ile Gly Gln Asp
 465 470 475 480

Leu Ile Gln Val Ala Val Ala Gln Tyr Ala Asp Thr Val Arg Pro Glu
 485 490 495

Phe Tyr Phe Asn Thr His Pro Thr Lys Arg Glu Val Ile Thr Ala Val
 500 505 510

Arg Lys Met Lys Pro Leu Asp Gly Ser Ala Leu Tyr Thr Gly Ser Ala
 515 520 525

Leu Asp Phe Val Arg Asn Asn Leu Phe Thr Ser Ser Ala Gly Tyr Arg
 530 535 540

Ala Ala Glu Gly Ile Pro Lys Leu Leu Val Leu Ile Thr Gly Gly Lys
 545 550 555 560

Ser Leu Asp Glu Ile Ser Gln Pro Ala Gln Glu Leu Lys Arg Ser Ser
 565 570 575

Ile Met Ala Phe Ala Ile Gly Asn Lys Gly Ala Asp Gln Ala Glu Leu
 580 585 590

Glu Glu Ile Ala Phe Asp Ser Ser Leu Val Phe Ile Pro Ala Glu Phe
 595 600 605

Arg Ala Ala Pro Leu Gln Gly Met Leu Pro Gly Leu Leu Ala Pro Leu
 610 615 620

Arg Thr Leu Ser Gly Thr Pro Glu Val His Ser Asn Lys Arg Asp Ile
 625 630 635 640

Ile Phe Leu Leu Asp Gly Ser Ala Asn Val Gly Lys Thr Asn Phe Pro
 645 650 655

Tyr Val Arg Asp Phe Val Met Asn Leu Val Asn Ser Leu Asp Ile Gly
 660 665 670

Asn Asp Asn Ile Arg Val Gly Leu Val Gln Phe Ser Asp Thr Pro Val
 675 680 685

Thr Glu Phe Ser Leu Asn Thr Tyr Gln Thr Lys Ser Asp Ile Leu Gly
 690 695 700

33318.ST25.PCT.txt

His Leu Arg Gln Leu Gln Leu Gln Gly Gly Ser Gly Leu Asn Thr Gly
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Ser Ala Leu Ser Tyr Val Tyr Ala Asn His Phe Thr Glu Ala Gly Gly
 725 730 735

Ser Arg Ile Arg Glu His Val Pro Gln Leu Leu Leu Leu Thr Ala
 740 745 750

Gly Gln Ser Glu Asp Ser Tyr Leu Gln Ala Ala Asn Ala Leu Thr Arg
 755 760 765

Ala Gly Ile Leu Thr Phe Cys Val Gly Ala Ser Gln Ala Asn Lys Ala
 770 775 780

Glu Leu Glu Gln Ile Ala Phe Asn Pro Ser Leu Val Tyr Leu Met Asp
 785 790 795 800

Asp Phe Ser Ser Leu Pro Ala Leu Pro Gln Gln Leu Ile Gln Pro Leu
 805 810 815

Thr Thr Tyr Val Ser Gly Gly Val Glu Glu Val Pro Leu Ala Gln Pro
 820 825 830

Glu Ser Lys Arg Asp Ile Leu Phe Leu Phe Asp Gly Ser Ala Asn Leu
 835 840 845

Val Gly Gln Phe Pro Val Val Arg Asp Phe Leu Tyr Lys Ile Ile Asp
 850 855 860

Glu Leu Asn Val Lys Pro Glu Gly Thr Arg Ile Ala Val Ala Gln Tyr
 865 870 875 880

Ser Asp Asp Val Lys Val Glu Ser Arg Phe Asp Glu His Gln Ser Lys
 885 890 895

Pro Glu Ile Leu Asn Leu Val Lys Arg Met Lys Ile Lys Thr Gly Lys
 900 905 910

Ala Leu Asn Leu Gly Tyr Ala Leu Asp Tyr Ala Gln Arg Tyr Ile Phe
 915 920 925

Val Lys Ser Ala Gly Ser Arg Ile Glu Asp Gly Val Leu Gln Phe Leu
 930 935 940

Val Leu Leu Val Ala Gly Arg Ser Ser Asp Arg Val Asp Gly Pro Ala
 945 950 955 960

Ser Asn Leu Lys Gln Ser Gly Val Val Pro Phe Ile Phe Gln Ala Lys
 965 970 975

33318.ST25.PCT.txt

Asn Ala Asp Pro Ala Glu Leu Glu Gln Ile Val Leu Ser Pro Ala Phe
 980 985 990

Ile Leu Ala Ala Glu Ser Leu Pro Lys Ile Gly Asp Leu His Pro Gln
 995 1000 1005

Ile Val Asn Leu Leu Lys Ser Val His Asn Gly Ala Pro Ala Pro
 1010 1015 1020

Val Ser Gly Glu Lys Asp Val Val Phe Leu Leu Asp Gly Ser Glu
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Gly Val Arg Ser Gly Phe Pro Leu Leu Lys Glu Phe Val Gln Arg
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Val Val Glu Ser Leu Asp Val Gly Gln Asp Arg Val Arg Val Ala
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Val Val Gln Tyr Ser Asp Arg Thr Arg Pro Glu Phe Tyr Leu Asn
 1070 1075 1080

Ser Tyr Met Asn Lys Gln Asp Val Val Asn Ala Val Arg Gln Leu
 1085 1090 1095

Thr Leu Leu Gly Gly Pro Thr Pro Asn Thr Gly Ala Ala Leu Glu
 1100 1105 1110

Phe Val Leu Arg Asn Ile Leu Val Ser Ser Ala Gly Ser Arg Ile
 1115 1120 1125

Thr Glu Gly Val Pro Gln Leu Leu Ile Val Leu Thr Ala Asp Arg
 1130 1135 1140

Ser Gly Asp Asp Val Arg Asn Pro Ser Val Val Val Lys Arg Gly
 1145 1150 1155

Gly Ala Val Pro Ile Gly Ile Gly Ile Gly Asn Ala Asp Ile Thr
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Glu Met Gln Thr Ile Ser Phe Ile Pro Asp Phe Ala Val Ala Ile
 1175 1180 1185

Pro Thr Phe Arg Gln Leu Gly Thr Val Gln Gln Val Ile Ser Glu
 1190 1195 1200

Arg Val Thr Gln Leu Thr Arg Glu Glu Leu Ser Arg Leu Gln Pro
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Val Leu Gln Pro Leu Pro Ser Pro Gly Val Gly Gly Lys Arg Asp
 1220 1225 1230

33318.ST25.PCT.txt

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 Gln Tyr Val Arg Thr Leu Ile Glu Arg Leu Val Asp Tyr Leu Asp
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 Val Gly Phe Asp Thr Thr Arg Val Ala Val Ile Gln Phe Ser Asp
 1265 1270 1275
 Asp Pro Lys Ala Glu Phe Leu Leu Asn Ala His Ser Ser Lys Asp
 1280 1285 1290
 Glu Val Gln Asn Ala Val Gln Arg Leu Arg Pro Lys Gly Gly Arg
 1295 1300 1305
 Gln Ile Asn Val Gly Asn Ala Leu Glu Tyr Val Ser Arg Asn Ile
 1310 1315 1320
 Phe Lys Arg Pro Leu Gly Ser Arg Ile Glu Glu Gly Val Pro Gln
 1325 1330 1335
 Phe Leu Val Leu Ile Ser Ser Gly Lys Ser Asp Asp Glu Val Val
 1340 1345 1350
 Val Pro Ala Val Glu Leu Lys Gln Phe Gly Val Ala Pro Phe Thr
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 Ser Pro Glu Tyr Val Phe Ser Val Ser Thr Phe Arg Glu Leu Pro
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 Ser Leu Glu Gln Lys Leu Leu Thr Pro Ile Thr Thr Leu Thr Ser
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 Glu Gln Ile Gln Lys Leu Leu Ala Ser Thr Arg Tyr Pro Pro Pro
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 Ala Val Glu Ser Asp Ala Ala Asp Ile Val Phe Leu Ile Asp Ser
 1430 1435 1440
 Ser Glu Gly Val Arg Pro Asp Gly Phe Ala His Ile Arg Asp Phe
 1445 1450 1455
 Val Ser Arg Ile Val Arg Arg Leu Asn Ile Gly Pro Ser Lys Val
 1460 1465 1470
 Arg Val Gly Val Val Gln Phe Ser Asn Asp Val Phe Pro Glu Phe
 1475 1480 1485

33318.ST25.PCT.txt

Tyr Leu Lys Thr Tyr Arg Ser Gln Ala Pro Val Leu Asp Ala Ile
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Ala Leu Glu Phe Val Ala Arg Asn Leu Phe Val Lys Ser Ala Gly
 1520 1525 1530

Ser Arg Ile Glu Asp Gly Val Pro Gln His Leu Val Leu Val Leu
 1535 1540 1545

Gly Gly Lys Ser Gln Asp Asp Val Ser Arg Phe Ala Gln Val Ile
 1550 1555 1560

Arg Ser Ser Gly Ile Val Ser Leu Gly Val Gly Asp Arg Asn Ile
 1565 1570 1575

Asp Arg Thr Glu Leu Gln Thr Ile Thr Asn Asp Pro Arg Leu Val
 1580 1585 1590

Phe Thr Val Arg Glu Phe Arg Glu Leu Pro Asn Ile Glu Glu Arg
 1595 1600 1605

Ile Met Asn Ser Phe Gly Pro Ser Ala Ala Thr Pro Ala Pro Pro
 1610 1615 1620

Gly Val Asp Thr Pro Pro Pro Ser Arg Pro Glu Lys Lys Lys Ala
 1625 1630 1635

Asp Ile Val Phe Leu Leu Asp Gly Ser Ile Asn Phe Arg Arg Asp
 1640 1645 1650

Ser Phe Gln Glu Val Leu Arg Phe Val Ser Glu Ile Val Asp Thr
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Val Tyr Glu Asp Gly Asp Ser Ile Gln Val Gly Leu Val Gln Tyr
 1670 1675 1680

Asn Ser Asp Pro Thr Asp Glu Phe Phe Leu Lys Asp Phe Ser Thr
 1685 1690 1695

Lys Arg Gln Ile Ile Asp Ala Ile Asn Lys Val Val Tyr Lys Gly
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Gly Arg His Ala Asn Thr Lys Val Gly Leu Glu His Leu Arg Val
 1715 1720 1725

Asn His Phe Val Pro Glu Ala Gly Ser Arg Leu Asp Gln Arg Val
 1730 1735 1740

33318.ST25.PCT.txt

Pro Gln Ile Ala Phe Val Ile Thr Gly Gly Lys Ser Val Glu Asp
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Phe Ala Val Gly Val Arg Asn Ile Asp Ser Glu Glu Val Gly Lys
 1775 1780 1785

Ile Ala Ser Asn Ser Ala Thr Ala Phe Arg Val Gly Asn Val Gln
 1790 1795 1800

Glu Leu Ser Glu Leu Ser Glu Gln Val Leu Glu Thr Leu His Asp
 1805 1810 1815

Ala Met His Glu Thr Leu Cys Pro Gly Val Thr Asp Ala Ala Lys
 1820 1825 1830

Ala Cys Asn Leu Asp Val Ile Leu Gly Phe Asp Gly Ser Arg Asp
 1835 1840 1845

Gln Asn Val Phe Val Ala Gln Lys Gly Phe Glu Ser Lys Val Asp
 1850 1855 1860

Ala Ile Leu Asn Arg Ile Ser Gln Met His Arg Val Ser Cys Ser
 1865 1870 1875

Gly Gly Arg Ser Pro Thr Val Arg Val Ser Val Val Ala Asn Thr
 1880 1885 1890

Pro Ser Gly Pro Val Glu Ala Phe Asp Phe Asp Glu Tyr Gln Pro
 1895 1900 1905

Glu Met Leu Glu Lys Phe Arg Asn Met Arg Ser Gln His Pro Tyr
 1910 1915 1920

Val Leu Thr Glu Asp Thr Leu Lys Val Tyr Leu Asn Lys Phe Arg
 1925 1930 1935

Gln Ser Ser Pro Asp Ser Val Lys Val Val Ile His Phe Thr Asp
 1940 1945 1950

Gly Ala Asp Gly Asp Leu Ala Asp Leu His Arg Ala Ser Glu Asn
 1955 1960 1965

Leu Arg Gln Glu Gly Val Arg Ala Leu Ile Leu Val Gly Leu Glu
 1970 1975 1980

Arg Val Val Asn Leu Glu Arg Leu Met His Leu Glu Phe Gly Arg
 1985 1990 1995

33318.ST25.PCT.txt

Gly Phe Met Tyr Asp Arg Pro Leu Arg Leu Asn Leu Leu Asp Leu
 2000 2005 2010

Asp Tyr Glu Leu Ala Glu Gln Leu Asp Asn Ile Ala Glu Lys Ala
 2015 2020 2025

Cys Cys Gly Val Pro Cys Lys Cys Ser Gly Gln Arg Gly Asp Arg
 2030 2035 2040

Gly Pro Ile Gly Ser Ile Gly Pro Lys Gly Ile Pro Gly Glu Asp
 2045 2050 2055

Gly Tyr Arg Gly Tyr Pro Gly Asp Glu Gly Gly Pro Gly Glu Arg
 2060 2065 2070

Gly Pro Pro Gly Val Asn Gly Thr Gln Gly Phe Gln Gly Cys Pro
 2075 2080 2085

Gly Gln Arg Gly Val Lys Gly Ser Arg Gly Phe Pro Gly Glu Lys
 2090 2095 2100

Gly Glu Val Gly Glu Ile Gly Leu Asp Gly Leu Asp Gly Glu Asp
 2105 2110 2115

Gly Asp Lys Gly Leu Pro Gly Ser Ser Gly Glu Lys Gly Asn Pro
 2120 2125 2130

Gly Arg Arg Gly Asp Lys Gly Pro Arg Gly Glu Lys Gly Glu Arg
 2135 2140 2145

Gly Asp Val Gly Ile Arg Gly Asp Pro Gly Asn Pro Gly Gln Asp
 2150 2155 2160

Ser Gln Glu Arg Gly Pro Lys Gly Glu Thr Gly Asp Leu Gly Pro
 2165 2170 2175

Met Gly Val Pro Gly Arg Asp Gly Val Pro Gly Gly Pro Gly Glu
 2180 2185 2190

Thr Gly Lys Asn Gly Gly Phe Gly Arg Arg Gly Pro Pro Gly Ala
 2195 2200 2205

Lys Gly Asn Lys Gly Gly Pro Gly Gln Pro Gly Phe Glu Gly Glu
 2210 2215 2220

Gln Gly Thr Arg Gly Ala Gln Gly Pro Ala Gly Pro Ala Gly Pro
 2225 2230 2235

Pro Gly Leu Ile Gly Glu Gln Gly Ile Ser Gly Pro Arg Gly Ser
 2240 2245 2250

33318.ST25.PCT.txt

Gly Gly Ala Arg Gly Ala Pro Gly Glu Arg Gly Arg Thr Gly Pro
 2255 2260 2265

Leu Gly Arg Lys Gly Glu Pro Gly Glu Pro Gly Pro Lys Gly Gly
 2270 2275 2280

Ile Gly Asn Pro Gly Pro Arg Gly Glu Thr Gly Asp Asp Gly Arg
 2285 2290 2295

Asp Gly Val Gly Ser Glu Gly Arg Arg Gly Lys Lys Gly Glu Arg
 2300 2305 2310

Gly Phe Pro Gly Tyr Pro Gly Pro Lys Gly Asn Pro Gly Glu Pro
 2315 2320 2325

Gly Leu Asn Gly Thr Thr Gly Pro Lys Gly Ile Arg Gly Arg Arg
 2330 2335 2340

Gly Asn Ser Gly Pro Pro Gly Ile Val Gly Gln Lys Gly Arg Pro
 2345 2350 2355

Gly Tyr Pro Gly Pro Ala Gly Pro Arg Gly Asn Arg Gly Asp Ser
 2360 2365 2370

Ile Asp Gln Cys Ala Leu Ile Gln Ser Ile Lys Asp Lys Cys Pro
 2375 2380 2385

Cys Cys Tyr Gly Pro Leu Glu Cys Pro Val Phe Pro Thr Glu Leu
 2390 2395 2400

Ala Phe Ala Leu Asp Thr Ser Glu Gly Val Asn Gln Asp Thr Phe
 2405 2410 2415

Gly Arg Met Arg Asp Val Val Leu Ser Ile Val Asn Val Leu Thr
 2420 2425 2430

Ile Ala Glu Ser Asn Cys Pro Thr Gly Ala Arg Val Ala Val Val
 2435 2440 2445

Thr Tyr Asn Asn Glu Val Thr Thr Glu Ile Arg Phe Ala Asp Ser
 2450 2455 2460

Lys Arg Lys Ser Val Leu Leu Asp Lys Ile Lys Asn Leu Gln Val
 2465 2470 2475

Ala Leu Thr Ser Lys Gln Gln Ser Leu Glu Thr Ala Met Ser Phe
 2480 2485 2490

Val Ala Arg Asn Thr Phe Lys Arg Val Arg Asn Gly Phe Leu Met
 2495 2500 2505

33318.ST25.PCT.txt

Arg Lys Val Ala Val Phe Phe Ser Asn Thr Pro Thr Arg Ala Ser
 2510 2515 2520
 Pro Gln Leu Arg Glu Ala Val Leu Lys Leu Ser Asp Ala Gly Ile
 2525 2530 2535
 Thr Pro Leu Phe Leu Thr Arg Gln Glu Asp Arg Gln Leu Ile Asn
 2540 2545 2550
 Ala Leu Gln Ile Asn Asn Thr Ala Val Gly His Ala Leu Val Leu
 2555 2560 2565
 Pro Ala Gly Arg Asp Leu Thr Asp Phe Leu Glu Asn Val Leu Thr
 2570 2575 2580
 Cys His Val Cys Leu Asp Ile Cys Asn Ile Asp Pro Ser Cys Gly
 2585 2590 2595
 Phe Gly Ser Trp Arg Pro Ser Phe Arg Asp Arg Arg Ala Ala Gly
 2600 2605 2610
 Ser Asp Val Asp Ile Asp Met Ala Phe Ile Leu Asp Ser Ala Glu
 2615 2620 2625
 Thr Thr Leu Phe Gln Phe Asn Glu Met Lys Lys Tyr Ile Ala
 2630 2635 2640
 Tyr Leu Val Arg Gln Leu Asp Met Ser Pro Asp Pro Lys Ala Ser
 2645 2650 2655
 Gln His Phe Ala Arg Val Ala Val Val Gln His Ala Pro Ser Glu
 2660 2665 2670
 Ser Val Asp Asn Ala Ser Met Pro Pro Val Lys Val Glu Phe Ser
 2675 2680 2685
 Leu Thr Asp Tyr Gly Ser Lys Glu Lys Leu Val Asp Phe Leu Ser
 2690 2695 2700
 Arg Gly Met Thr Gln Leu Gln Gly Thr Arg Ala Leu Gly Ser Ala
 2705 2710 2715
 Ile Glu Tyr Thr Ile Glu Asn Val Phe Glu Ser Ala Pro Asn Pro
 2720 2725 2730
 Arg Asp Leu Lys Ile Val Val Leu Met Leu Thr Gly Glu Val Pro
 2735 2740 2745
 Glu Gln Gln Leu Glu Glu Ala Gln Arg Val Ile Leu Gln Ala Lys
 2750 2755 2760

33318.ST25.PCT.txt

Cys Lys Gly Tyr Phe Phe Val Val Leu Gly Ile Gly Arg Lys Val
 2765 2770 2775

Asn Ile Lys Glu Val Tyr Thr Phe Ala Ser Glu Pro Asn Asp Val
 2780 2785 2790

Phe Phe Lys Leu Val Asp Lys Ser Thr Glu Leu Asn Glu Glu Pro
 2795 2800 2805

Leu Met Arg Phe Gly Arg Leu Leu Pro Ser Phe Val Ser Ser Glu
 2810 2815 2820

Asn Ala Phe Tyr Leu Ser Pro Asp Ile Arg Lys Gln Cys Asp Trp
 2825 2830 2835

Phe Gln Gly Asp Gln Pro Thr Lys Asn Leu Val Lys Phe Gly His
 2840 2845 2850

Lys Gln Val Asn Val Pro Asn Asn Val Thr Ser Ser Pro Thr Ser
 2855 2860 2865

Asn Pro Val Thr Thr Thr Lys Pro Val Thr Thr Thr Lys Pro Val
 2870 2875 2880

Thr Thr Thr Lys Pro Val Thr Thr Thr Thr Lys Pro Val Thr
 2885 2890 2895

Ile Ile Asn Gln Pro Ser Val Lys Pro Ala Ala Ala Lys Pro Ala
 2900 2905 2910

Pro Ala Lys Pro Val Ala Ala Lys Pro Val Ala Thr Lys Thr Ala
 2915 2920 2925

Thr Val Arg Pro Pro Val Ala Val Lys Pro Ala Thr Ala Ala Lys
 2930 2935 2940

Pro Val Ala Ala Lys Pro Ala Ala Val Arg Pro Pro Ala Ala Ala
 2945 2950 2955

Ala Lys Pro Val Ala Thr Lys Pro Glu Val Pro Arg Pro Gln Ala
 2960 2965 2970

Ala Lys Pro Ala Ala Thr Lys Pro Ala Thr Thr Lys Pro Val Val
 2975 2980 2985

Lys Met Leu Arg Glu Val Gln Val Phe Glu Ile Thr Glu Asn Ser
 2990 2995 3000

Ala Lys Leu His Trp Glu Arg Pro Glu Pro Pro Gly Pro Tyr Phe
 3005 3010 3015

33318.ST25.PCT.txt

Tyr Asp Leu Thr Val Thr Ser Ala His Asp Gln Ser Leu Val Leu
 3020 3025 3030

Lys Gln Asn Leu Thr Val Thr Asp Arg Val Ile Gly Gly Leu Leu
 3035 3040 3045

Ala Gly Gln Thr Tyr His Val Ala Val Val Cys Tyr Leu Arg Ser
 3050 3055 3060

Gln Val Arg Ala Thr Tyr His Gly Ser Phe Ser Thr Lys Lys Ser
 3065 3070 3075

Gln Pro Pro Pro Gln Pro Ala Arg Ser Ala Ser Ser Ser Thr
 3080 3085 3090

Ile Asn Leu Met Val Ser Thr Glu Pro Leu Ala Leu Thr Glu Thr
 3095 3100 3105

Asp Ile Cys Lys Leu Pro Lys Asp Glu Gly Thr Cys Arg Asp Phe
 3110 3115 3120

Ile Leu Lys Trp Tyr Tyr Asp Pro Asn Thr Lys Ser Cys Ala Arg
 3125 3130 3135

Phe Trp Tyr Gly Gly Cys Gly Asn Glu Asn Lys Phe Gly Ser
 3140 3145 3150

Gln Lys Glu Cys Glu Lys Val Cys Ala Pro Val Leu Ala Lys Pro
 3155 3160 3165

Gly Val Ile Ser Val Met Gly Thr
 3170 3175

<210> 45
 <211> 688
 <212> PRT
 <213> Homo sapiens

<400> 45

Met Trp Cys Ile Val Leu Phe Ser Leu Leu Ala Trp Val Tyr Ala Glu
 1 5 10 15

Pro Thr Met Tyr Gly Glu Ile Leu Ser Pro Asn Tyr Pro Gln Ala Tyr
 20 25 30

Pro Ser Glu Val Glu Lys Ser Trp Asp Ile Glu Val Pro Glu Gly Tyr
 35 40 45

Gly Ile His Leu Tyr Phe Thr His Leu Asp Ile Glu Leu Ser Glu Asn
 50 55 60

33318.ST25.PCT.txt

Cys Ala Tyr Asp Ser Val Gln Ile Ile Ser Gly Asp Thr Glu Glu Gly
 65 70 75 80

Arg Leu Cys Gly Gln Arg Ser Ser Asn Asn Pro His Ser Pro Ile Val
 85 90 95

Glu Glu Phe Gln Val Pro Tyr Asn Lys Leu Gln Val Ile Phe Lys Ser
 100 105 110

Asp Phe Ser Asn Glu Glu Arg Phe Thr Gly Phe Ala Ala Tyr Tyr Val
 115 120 125

Ala Thr Asp Ile Asn Glu Cys Thr Asp Phe Val Asp Val Pro Cys Ser
 130 135 140

His Phe Cys Asn Asn Phe Ile Gly Gly Tyr Phe Cys Ser Cys Pro Pro
 145 150 155 160

Glu Tyr Phe Leu His Asp Asp Met Lys Asn Cys Gly Val Asn Cys Ser
 165 170 175

Gly Asp Val Phe Thr Ala Leu Ile Gly Glu Ile Ala Ser Pro Asn Tyr
 180 185 190

Pro Lys Pro Tyr Pro Glu Asn Ser Arg Cys Glu Tyr Gln Ile Arg Leu
 195 200 205

Glu Lys Gly Phe Gln Val Val Val Thr Leu Arg Arg Glu Asp Phe Asp
 210 215 220

Val Glu Ala Ala Asp Ser Ala Gly Asn Cys Leu Asp Ser Leu Val Phe
 225 230 235 240

Val Ala Gly Asp Arg Gln Phe Gly Pro Tyr Cys Gly His Gly Phe Pro
 245 250 255

Gly Pro Leu Asn Ile Glu Thr Lys Ser Asn Ala Leu Asp Ile Ile Phe
 260 265 270

Gln Thr Asp Leu Thr Gly Gln Lys Lys Gly Trp Lys Leu Arg Tyr His
 275 280 285

Gly Asp Pro Met Pro Cys Pro Lys Glu Asp Thr Pro Asn Ser Val Trp
 290 295 300

Glu Pro Ala Lys Ala Lys Tyr Val Phe Arg Asp Val Val Gln Ile Thr
 305 310 315 320

Cys Leu Asp Gly Phe Glu Val Val Glu Gly Arg Val Gly Ala Thr Ser
 325 330 335

33318.ST25.PCT.txt

Phe Tyr Ser Thr Cys Gln Ser Asn Gly Lys Trp Ser Asn Ser Lys Leu
 340 345 350

Lys Cys Gln Pro Val Asp Cys Gly Ile Pro Glu Ser Ile Glu Asn Gly
 355 360 365

Lys Val Glu Asp Pro Glu Ser Thr Leu Phe Gly Ser Val Ile Arg Tyr
 370 375 380

Thr Cys Glu Glu Pro Tyr Tyr Tyr Met Glu Asn Gly Gly Gly Glu
 385 390 395 400

Tyr His Cys Ala Gly Asn Gly Ser Trp Val Asn Glu Val Leu Gly Pro
 405 410 415

Glu Leu Pro Lys Cys Val Pro Val Cys Gly Val Pro Arg Glu Pro Phe
 420 425 430

Glu Glu Lys Gln Arg Ile Ile Gly Gly Ser Asp Ala Asp Ile Lys Asn
 435 440 445

Phe Pro Trp Gln Val Phe Phe Asp Asn Pro Trp Ala Gly Gly Ala Leu
 450 455 460

Ile Asn Glu Tyr Trp Val Leu Thr Ala Ala His Val Val Glu Gly Asn
 465 470 475 480

Arg Glu Pro Thr Met Tyr Val Gly Ser Thr Ser Val Gln Thr Ser Arg
 485 490 495

Leu Ala Lys Ser Lys Met Leu Thr Pro Glu His Val Phe Ile His Pro
 500 505 510

Gly Trp Lys Leu Leu Glu Val Pro Glu Gly Arg Thr Asn Phe Asp Asn
 515 520 525

Asp Ile Ala Leu Val Arg Leu Lys Asp Pro Val Lys Met Gly Pro Thr
 530 535 540

Val Ser Pro Ile Cys Leu Pro Gly Thr Ser Ser Asp Tyr Asn Leu Met
 545 550 555 560

Asp Gly Asp Leu Gly Leu Ile Ser Gly Trp Gly Arg Thr Glu Lys Arg
 565 570 575

Asp Arg Ala Val Arg Leu Lys Ala Ala Arg Leu Pro Val Ala Pro Leu
 580 585 590

Arg Lys Cys Lys Glu Val Lys Val Glu Lys Pro Thr Ala Asp Ala Glu
 595 600 605

33318.ST25.PCT.txt

Ala Tyr Val Phe Thr Pro Asn Met Ile Cys Ala Gly Gly Glu Lys Gly
 610 615 620

Met Asp Ser Cys Lys Gly Asp Ser Gly Gly Ala Phe Ala Val Gln Asp
 625 630 635 640

Pro Asn Asp Lys Thr Lys Phe Tyr Ala Ala Gly Leu Val Ser Trp Gly
 645 650 655

Pro Gln Cys Gly Thr Tyr Gly Leu Tyr Thr Arg Val Lys Asn Tyr Val
 660 665 670

Asp Trp Ile Met Lys Thr Met Gln Glu Asn Ser Thr Pro Arg Glu Asp
 675 680 685

<210> 46

<211> 128

<212> PRT

<213> Homo sapiens

<400> 46

Met Gly Ile Gln Gly Gly Ser Val Leu Phe Gly Leu Leu Leu Val Leu
 1 5 10 15

Ala Val Phe Cys His Ser Gly His Ser Leu Gln Cys Tyr Asn Cys Pro
 20 25 30

Asn Pro Thr Ala Asp Cys Lys Thr Ala Val Asn Cys Ser Ser Asp Phe
 35 40 45

Asp Ala Cys Leu Ile Thr Lys Ala Gly Leu Gln Val Tyr Asn Lys Cys
 50 55 60

Trp Lys Phe Glu His Cys Asn Phe Asn Asp Val Thr Thr Arg Leu Arg
 65 70 75 80

Glu Asn Glu Leu Thr Tyr Tyr Cys Cys Lys Lys Asp Leu Cys Asn Phe
 85 90 95

Asn Glu Gln Leu Glu Asn Gly Gly Thr Ser Leu Ser Glu Lys Thr Val
 100 105 110

Leu Leu Leu Val Thr Pro Phe Leu Ala Ala Ala Trp Ser Leu His Pro
 115 120 125

<210> 47

<211> 605

<212> PRT

<213> Homo sapiens

<400> 47

Met Ala Leu Arg Lys Gly Gly Leu Ala Leu Ala Leu Leu Leu Ser
 1 5 10 15
 30

33318.ST25.PCT.txt

Trp Val Ala Leu Gly Pro Arg Ser Leu Glu Gly Ala Asp Pro Gly Thr
20 25 30

Pro Gly Glu Ala Glu Gly Pro Ala Cys Pro Ala Ala Cys Val Cys Ser
35 40 45

Tyr Asp Asp Asp Ala Asp Glu Leu Ser Val Phe Cys Ser Ser Arg Asn
50 55 60

Leu Thr Arg Leu Pro Asp Gly Val Pro Gly Gly Thr Gln Ala Leu Trp
65 70 75 80

Leu Asp Gly Asn Asn Leu Ser Ser Val Pro Pro Ala Ala Phe Gln Asn
85 90 95

Leu Ser Ser Leu Gly Phe Leu Asn Leu Gln Gly Gly Gln Leu Gly Ser
100 105 110

Leu Glu Pro Gln Ala Leu Leu Gly Leu Glu Asn Leu Cys His Leu His
115 120 125

Leu Glu Arg Asn Gln Leu Arg Ser Leu Ala Leu Gly Thr Phe Ala His
130 135 140

Thr Pro Ala Leu Ala Ser Leu Gly Leu Ser Asn Asn Arg Leu Ser Arg
145 150 155 160

Leu Glu Asp Gly Leu Phe Glu Gly Leu Gly Ser Leu Trp Asp Leu Asn
165 170 175

Leu Gly Trp Asn Ser Leu Ala Val Leu Pro Asp Ala Ala Phe Arg Gly
180 185 190

Leu Gly Ser Leu Arg Glu Leu Val Leu Ala Gly Asn Arg Leu Ala Tyr
195 200 205

Leu Gln Pro Ala Leu Phe Ser Gly Leu Ala Glu Leu Arg Glu Leu Asp
210 215 220

Leu Ser Arg Asn Ala Leu Arg Ala Ile Lys Ala Asn Val Phe Val Gln
225 230 235 240

Leu Pro Arg Leu Gln Lys Leu Tyr Leu Asp Arg Asn Leu Ile Ala Ala
245 250 255

Val Ala Pro Gly Ala Phe Leu Gly Leu Lys Ala Leu Arg Trp Leu Asp
260 265 270

Leu Ser His Asn Arg Val Ala Gly Leu Leu Glu Asp Thr Phe Pro Gly
275 280 285

33318.ST25.PCT.txt

Leu Leu Gly Leu Arg Val Leu Arg Leu Ser His Asn Ala Ile Ala Ser
290 295 300

Leu Arg Pro Arg Thr Phe Lys Asp Leu His Phe Leu Glu Glu Leu Gln
305 310 315 320

Leu Gly His Asn Arg Ile Arg Gln Leu Ala Glu Arg Ser Phe Glu Gly
325 330 335

Leu Gly Gln Leu Glu Val Leu Thr Leu Asp His Asn Gln Leu Gln Glu
340 345 350

Val Lys Ala Gly Ala Phe Leu Gly Leu Thr Asn Val Ala Val Met Asn
355 360 365

Leu Ser Gly Asn Cys Leu Arg Asn Leu Pro Glu Gln Val Phe Arg Gly
370 375 380

Leu Gly Lys Leu His Ser Leu His Leu Glu Gly Ser Cys Leu Gly Arg
385 390 395 400

Ile Arg Pro His Thr Phe Thr Gly Leu Ser Gly Leu Arg Arg Leu Phe
405 410 415

Leu Lys Asp Asn Gly Leu Val Gly Ile Glu Glu Gln Ser Leu Trp Gly
420 425 430

Leu Ala Glu Leu Leu Glu Leu Asp Leu Thr Ser Asn Gln Leu Thr His
435 440 445

Leu Pro His Arg Leu Phe Gln Gly Leu Gly Lys Leu Glu Tyr Leu Leu
450 455 460

Leu Ser Arg Asn Arg Leu Ala Glu Leu Pro Ala Asp Ala Leu Gly Pro
465 470 475 480

Leu Gln Arg Ala Phe Trp Leu Asp Val Ser His Asn Arg Leu Glu Ala
485 490 495

Leu Pro Asn Ser Leu Leu Ala Pro Leu Gly Arg Leu Arg Tyr Leu Ser
500 505 510

Leu Arg Asn Asn Ser Leu Arg Thr Phe Thr Pro Gln Pro Pro Gly Leu
515 520 525

Glu Arg Leu Trp Leu Glu Gly Asn Pro Trp Asp Cys Gly Cys Pro Leu
530 535 540

Lys Ala Leu Arg Asp Phe Ala Leu Gln Asn Pro Ser Ala Val Pro Arg
545 550 555 560

33318.ST25.PCT.txt

Phe Val Gln Ala Ile Cys Glu Gly Asp Asp Cys Gln Pro Pro Ala Tyr
 565 570 575

Thr Tyr Asn Asn Ile Thr Cys Ala Ser Pro Pro Glu Val Val Gly Leu
 580 585 590

Asp Leu Arg Asp Leu Ser Glu Ala His Phe Ala Pro Cys
 595 600 605

<210> 48

<211> 94

<212> PRT

<213> Homo sapiens

<400> 48

Met Arg Thr Ile Ala Ile Leu Ala Ala Ile Leu Leu Val Ala Leu Gln
 1 5 10 15

Ala Gln Ala Glu Ser Leu Gln Glu Arg Ala Asp Glu Ala Thr Thr Gln
 20 25 30

Lys Gln Ser Gly Glu Asp Asn Gln Asp Leu Ala Ile Ser Phe Ala Gly
 35 40 45

Asn Gly Leu Ser Ala Leu Arg Thr Ser Gly Ser Gln Ala Arg Ala Thr
 50 55 60

Cys Tyr Cys Arg Thr Gly Arg Cys Ala Thr Arg Glu Ser Leu Ser Gly
 65 70 75 80

Val Cys Glu Ile Ser Gly Arg Leu Tyr Arg Leu Cys Cys Arg
 85 90

<210> 49

<211> 151

<212> PRT

<213> Homo sapiens

<400> 49

Met Arg Arg Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45

Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60

33318.ST25.PCT.txt

Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
65 70 75 80

Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
85 90 95

Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu
100 105 110

Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
115 120 125

Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln
130 135 140

Asp His Ile Tyr His Pro Gln
145 150

<210> 50
<211> 949
<212> PRT
<213> Homo sapiens

<400> 50

Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly
1 5 10 15

Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu
20 25 30

Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr
35 40 45

Ser Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys
50 55 60

Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His
65 70 75 80

Ser Gln Gln Pro Cys Pro Gln Gly Ala Pro Asp Cys Gln Lys Val Lys
85 90 95

Val Met Tyr Arg Met Ala His Lys Pro Val Tyr Gln Val Lys Gln Lys
100 105 110

Val Leu Thr Ser Leu Ala Trp Arg Cys Cys Pro Gly Tyr Thr Gly Pro
115 120 125

Asn Cys Glu His His Asp Ser Met Ala Ile Pro Glu Pro Ala Asp Pro
130 135 140

Gly Asp Ser His Gln Glu Pro Gln Asp Gly Pro Val Ser Phe Lys Pro
34

145	150	33318.ST25.PCT.txt 155	160
Gly His Leu Ala Ala Val Ile Asn Glu Val Glu Val Gln Gln Glu Gln 165 170 175			
Gln Glu His Leu Leu Gly Asp Leu Gln Asn Asp Val His Arg Val Ala 180 185 190			
Asp Ser Leu Pro Gly Leu Trp Lys Ala Leu Pro Gly Asn Leu Thr Ala 195 200 205			
Ala Val Met Glu Ala Asn Gln Thr Gly His Glu Phe Pro Asp Arg Ser 210 215 220			
Leu Glu Gln Val Leu Leu Pro His Val Asp Thr Phe Leu Gln Val His 225 230 235 240			
Phe Ser Pro Ile Trp Arg Ser Phe Asn Gln Ser Leu His Ser Leu Thr 245 250 255			
Gln Ala Ile Arg Asn Leu Ser Leu Asp Val Glu Ala Asn Arg Gln Ala 260 265 270			
Ile Ser Arg Val Gln Asp Ser Ala Val Ala Arg Ala Asp Phe Gln Glu 275 280 285			
Leu Gly Ala Lys Phe Glu Ala Lys Val Gln Glu Asn Thr Gln Arg Val 290 295 300			
Gly Gln Leu Arg Gln Asp Val Glu Asp Arg Leu His Ala Gln His Phe 305 310 315 320			
Thr Leu His Arg Ser Ile Ser Glu Leu Gln Ala Asp Val Asp Thr Lys 325 330 335			
Leu Lys Arg Leu His Lys Ala Gln Glu Ala Pro Gly Thr Asn Gly Ser 340 345 350			
Leu Val Leu Ala Thr Pro Gly Ala Gly Ala Arg Pro Glu Pro Asp Ser 355 360 365			
Leu Gln Ala Arg Leu Gly Gln Leu Gln Arg Asn Leu Ser Glu Leu His 370 375 380			
Met Thr Thr Ala Arg Arg Glu Glu Glu Leu Gln Tyr Thr Leu Glu Asp 385 390 395 400			
Met Arg Ala Thr Leu Thr Arg His Val Asp Glu Ile Lys Glu Leu Tyr 405 410 415			
Ser Glu Ser Asp Glu Thr Phe Asp Gln Ile Ser Lys Val Glu Arg Gln 35			

420 33318.ST25.PCT.txt 425 430

Val Glu Glu Leu Gln Val Asn His Thr Ala Leu Arg Glu Leu Arg Val
435 440 445

Ile Leu Met Glu Lys Ser Leu Ile Met Glu Glu Asn Lys Glu Glu Val
450 455 460

Glu Arg Gln Leu Leu Glu Leu Asn Leu Thr Leu Gln His Leu Gln Gly
465 470 475 480

Gly His Ala Asp Leu Ile Lys Tyr Val Lys Asp Cys Asn Cys Gln Lys
485 490 495

Leu Tyr Leu Asp Leu Asp Val Ile Arg Glu Gly Gln Arg Asp Ala Thr
500 505 510

Arg Ala Leu Glu Glu Thr Gln Val Ser Leu Asp Glu Arg Arg Gln Leu
515 520 525

Asp Gly Ser Ser Leu Gln Ala Leu Gln Asn Ala Val Asp Ala Val Ser
530 535 540

Leu Ala Val Asp Ala His Lys Ala Glu Gly Glu Arg Ala Arg Ala Ala
545 550 555 560

Thr Ser Arg Leu Arg Ser Gln Val Gln Ala Leu Asp Asp Glu Val Gly
565 570 575

Ala Leu Lys Ala Ala Ala Ala Glu Ala Arg His Glu Val Arg Gln Leu
580 585 590

His Ser Ala Phe Ala Ala Leu Leu Glu Asp Ala Leu Arg His Glu Ala
595 600 605

Val Leu Ala Ala Leu Phe Gly Glu Glu Val Leu Glu Glu Met Ser Glu
610 615 620

Gln Thr Pro Gly Pro Leu Pro Leu Ser Tyr Glu Gln Ile Arg Val Ala
625 630 635 640

Leu Gln Asp Ala Ala Ser Gly Leu Gln Glu Gln Ala Leu Gly Trp Asp
645 650 655

Glu Leu Ala Ala Arg Val Thr Ala Leu Glu Gln Ala Ser Glu Pro Pro
660 665 670

Arg Pro Ala Glu His Leu Glu Pro Ser His Asp Ala Gly Arg Glu Glu
675 680 685

Ala Ala Thr Thr Ala Leu Ala Gly Leu Ala Arg Glu Leu Gln Ser Leu

690 695 33318.ST25.PCT.txt
700

Ser Asn Asp Val Lys Asn Val Gly Arg Cys Cys Glu Ala Glu Ala Gly
705 710 715 720

Ala Gly Ala Ala Ser Leu Asn Ala Ser Leu Asp Gly Leu His Asn Ala
725 730 735

Leu Phe Ala Thr Gln Arg Ser Leu Glu Gln His Gln Arg Leu Phe His
740 745 750

Ser Leu Phe Gly Asn Phe Gln Gly Leu Met Glu Ala Asn Val Ser Leu
755 760 765

Asp Leu Gly Lys Leu Gln Thr Met Leu Ser Arg Lys Gly Lys Lys Gln
770 775 780

Gln Lys Asp Leu Glu Ala Pro Arg Lys Arg Asp Lys Lys Glu Ala Glu
785 790 795 800

Pro Leu Val Asp Ile Arg Val Thr Gly Pro Val Pro Gly Ala Leu Gly
805 810 815

Ala Ala Leu Trp Glu Ala Gly Ser Pro Val Ala Phe Tyr Ala Ser Phe
820 825 830

Ser Glu Gly Thr Ala Ala Leu Gln Thr Val Lys Phe Asn Thr Thr Tyr
835 840 845

Ile Asn Ile Gly Ser Ser Tyr Phe Pro Glu His Gly Tyr Phe Arg Ala
850 855 860

Pro Glu Arg Gly Val Tyr Leu Phe Ala Val Ser Val Glu Phe Gly Pro
865 870 875 880

Gly Pro Gly Thr Gln Leu Val Phe Gly Gly His His Arg Thr Pro
885 890 895

Val Cys Thr Thr Gly Gln Gly Ser Gly Ser Thr Ala Thr Val Phe Ala
900 905 910

Met Ala Glu Leu Gln Lys Gly Glu Arg Val Trp Phe Glu Leu Thr Gln
915 920 925

Gly Ser Ile Thr Lys Arg Ser Leu Ser Gly Thr Ala Phe Gly Gly Phe
930 935 940

Leu Met Phe Lys Thr
945

33318.ST25.PCT.txt

<211> 185
 <212> PRT
 <213> Homo sapiens

<400> 51

Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala
 1 5 10 15

Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn
 20 25 30

Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val
 35 40 45

Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp
 50 55 60

Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr
 65 70 75 80

Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser
 85 90 95

Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly
 100 105 110

Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val
 115 120 125

Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly
 130 135 140

Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe
 145 150 155 160

Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile
 165 170 175

Ser Phe Cys Gly Asp Thr Val Glu Asn
 180 185

<210> 52
 <211> 1676
 <212> PRT
 <213> Homo sapiens

<400> 52

Met Gly Leu Leu Gly Ile Leu Cys Phe Leu Ile Phe Leu Gly Lys Thr
 1 5 10 15

Trp Gly Gln Glu Gln Thr Tyr Val Ile Ser Ala Pro Lys Ile Phe Arg
 20 25 30

33318.ST25.PCT.txt

val Gly Ala Ser Glu Asn Ile Val Ile Gln Val Tyr Gly Tyr Thr Glu
35 40 45

Ala Phe Asp Ala Thr Ile Ser Ile Lys Ser Tyr Pro Asp Lys Lys Phe
50 55 60

Ser Tyr Ser Ser Gly His Val His Leu Ser Ser Glu Asn Lys Phe Gln
65 70 75 80

Asn Ser Ala Ile Leu Thr Ile Gln Pro Lys Gln Leu Pro Gly Gly Gln
85 90 95

Asn Pro Val Ser Tyr Val Tyr Leu Glu Val Val Ser Lys His Phe Ser
100 105 110

Lys Ser Lys Arg Met Pro Ile Thr Tyr Asp Asn Gly Phe Leu Phe Ile
115 120 125

His Thr Asp Lys Pro Val Tyr Thr Pro Asp Gln Ser Val Lys Val Arg
130 135 140

Val Tyr Ser Leu Asn Asp Asp Leu Lys Pro Ala Lys Arg Glu Thr Val
145 150 155 160

Leu Thr Phe Ile Asp Pro Glu Gly Ser Glu Val Asp Met Val Glu Glu
165 170 175

Ile Asp His Ile Gly Ile Ile Ser Phe Pro Asp Phe Lys Ile Pro Ser
180 185 190

Asn Pro Arg Tyr Gly Met Trp Thr Ile Lys Ala Lys Tyr Lys Glu Asp
195 200 205

Phe Ser Thr Thr Gly Thr Ala Tyr Phe Glu Val Lys Glu Tyr Val Leu
210 215 220

Pro His Phe Ser Val Ser Ile Glu Pro Glu Tyr Asn Phe Ile Gly Tyr
225 230 235 240

Lys Asn Phe Lys Asn Phe Glu Ile Thr Ile Lys Ala Arg Tyr Phe Tyr
245 250 255

Asn Lys Val Val Thr Glu Ala Asp Val Tyr Ile Thr Phe Gly Ile Arg
260 265 270

Glu Asp Leu Lys Asp Asp Gln Lys Glu Met Met Gln Thr Ala Met Gln
275 280 285

Asn Thr Met Leu Ile Asn Gly Ile Ala Gln Val Thr Phe Asp Ser Glu
290 295 300

33318.ST25.PCT.txt

Thr Ala Val Lys Glu Leu Ser Tyr Tyr Ser Leu Glu Asp Leu Asn Asn
 305 310 315 320

Lys Tyr Leu Tyr Ile Ala Val Thr Val Ile Glu Ser Thr Gly Gly Phe
 325 330 335

Ser Glu Glu Ala Glu Ile Pro Gly Ile Lys Tyr Val Leu Ser Pro Tyr
 340 345 350

Lys Leu Asn Leu Val Ala Thr Pro Leu Phe Leu Lys Pro Gly Ile Pro
 355 360 365

Tyr Pro Ile Lys Val Gln Val Lys Asp Ser Leu Asp Gln Leu Val Gly
 370 375 380

Gly Val Pro Val Ile Leu Asn Ala Gln Thr Ile Asp Val Asn Gln Glu
 385 390 395 400

Thr Ser Asp Leu Asp Pro Ser Lys Ser Val Thr Arg Val Asp Asp Gly
 405 410 415

Val Ala Ser Phe Val Leu Asn Leu Pro Ser Gly Val Thr Val Leu Glu
 420 425 430

Phe Asn Val Lys Thr Asp Ala Pro Asp Leu Pro Glu Glu Asn Gln Ala
 435 440 445

Arg Glu Gly Tyr Arg Ala Ile Ala Tyr Ser Ser Leu Ser Gln Ser Tyr
 450 455 460

Leu Tyr Ile Asp Trp Thr Asp Asn His Lys Ala Leu Leu Val Gly Glu
 465 470 475 480

His Leu Asn Ile Ile Val Thr Pro Lys Ser Pro Tyr Ile Asp Lys Ile
 485 490 495

Thr His Tyr Asn Tyr Leu Ile Leu Ser Lys Gly Lys Ile Ile His Phe
 500 505 510

Gly Thr Arg Glu Lys Phe Ser Asp Ala Ser Tyr Gln Ser Ile Asn Ile
 515 520 525

Pro Val Thr Gln Asn Met Val Pro Ser Ser Arg Leu Leu Val Tyr Tyr
 530 535 540

Ile Val Thr Gly Glu Gln Thr Ala Glu Leu Val Ser Asp Ser Val Trp
 545 550 555 560

Leu Asn Ile Glu Glu Lys Cys Gly Asn Gln Leu Gln Val His Leu Ser
 565 570 575

33318.ST25.PCT.txt

Pro Asp Ala Asp Ala Tyr Ser Pro Gly Gln Thr Val Ser Leu Asn Met
 580 585 590

Ala Thr Gly Met Asp Ser Trp Val Ala Leu Ala Ala Val Asp Ser Ala
 595 600 605

Val Tyr Gly Val Gln Arg Gly Ala Lys Lys Pro Leu Glu Arg Val Phe
 610 615 620

Gln Phe Leu Glu Lys Ser Asp Leu Gly Cys Gln Ala Gly Gly Leu
 625 630 635 640

Asn Asn Ala Asn Val Phe His Leu Ala Gly Leu Thr Phe Leu Thr Asn
 645 650 655

Ala Asn Ala Asp Asp Ser Gln Glu Asn Asp Glu Pro Cys Lys Glu Ile
 660 665 670

Leu Arg Pro Arg Arg Thr Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala
 675 680 685

Lys Tyr Lys His Ser Val Val Lys Lys Cys Cys Tyr Asp Gly Ala Cys
 690 695 700

Val Asn Asn Asp Glu Thr Cys Glu Gln Arg Ala Ala Arg Ile Ser Leu
 705 710 715 720

Gly Pro Arg Cys Ile Lys Ala Phe Thr Glu Cys Cys Val Val Ala Ser
 725 730 735

Gln Leu Arg Ala Asn Ile Ser His Lys Asp Met Gln Leu Gly Arg Leu
 740 745 750

His Met Lys Thr Leu Leu Pro Val Ser Lys Pro Glu Ile Arg Ser Tyr
 755 760 765

Phe Pro Glu Ser Trp Leu Trp Glu Val His Leu Val Pro Arg Arg Lys
 770 775 780 785

Gln Leu Gln Phe Ala Leu Pro Asp Ser Leu Thr Thr Trp Glu Ile Gln
 785 790 795 800

Gly Ile Gly Ile Ser Asn Thr Gly Ile Cys Val Ala Asp Thr Val Lys
 805 810 815

Ala Lys Val Phe Lys Asp Val Phe Leu Glu Met Asn Ile Pro Tyr Ser
 820 825 830 835

Val Val Arg Gly Glu Gln Ile Gln Leu Lys Gly Thr Val Tyr Asn Tyr
 840 845

33318.ST25.PCT.txt

Arg Thr Ser Gly Met Gln Phe Cys Val Lys Met Ser Ala Val Glu Gly
 850 855 860

Ile Cys Thr Ser Glu Ser Pro Val Ile Asp His Gln Gly Thr Lys Ser
 865 870 875 880

Ser Lys Cys Val Arg Gln Lys Val Glu Gly Ser Ser Ser His Leu Val
 885 890 895

Thr Phe Thr Val Leu Pro Leu Glu Ile Gly Leu His Asn Ile Asn Phe
 900 905 910

Ser Leu Glu Thr Trp Phe Gly Lys Glu Ile Leu Val Lys Thr Leu Arg
 915 920 925

Val Val Pro Glu Gly Val Lys Arg Glu Ser Tyr Ser Gly Val Thr Leu
 930 935 940

Asp Pro Arg Gly Ile Tyr Gly Thr Ile Ser Arg Arg Lys Glu Phe Pro
 945 950 955 960

Tyr Arg Ile Pro Leu Asp Leu Val Pro Lys Thr Glu Ile Lys Arg Ile
 965 970 975

Leu Ser Val Lys Gly Leu Leu Val Gly Glu Ile Leu Ser Ala Val Leu
 980 985 990

Ser Gln Glu Gly Ile Asn Ile Leu Thr His Leu Pro Lys Gly Ser Ala
 995 1000 1005

Glu Ala Glu Leu Met Ser Val Val Pro Val Phe Tyr Val Phe His
 1010 1015 1020

Tyr Leu Glu Thr Gly Asn His Trp Asn Ile Phe His Ser Asp Pro
 1025 1030 1035

Leu Ile Glu Lys Gln Lys Leu Lys Lys Lys Leu Lys Glu Gly Met
 1040 1045 1050

Leu Ser Ile Met Ser Tyr Arg Asn Ala Asp Tyr Ser Tyr Ser Val
 1055 1060 1065

Trp Lys Gly Gly Ser Ala Ser Thr Trp Leu Thr Ala Phe Ala Leu
 1070 1075 1080

Arg Val Leu Gly Gln Val Asn Lys Tyr Val Glu Gln Asn Gln Asn
 1085 1090 1095

Ser Ile Cys Asn Ser Leu Leu Trp Leu Val Glu Asn Tyr Gln Leu
 1100 1105 1110

33318.ST25.PCT.txt

Asp Asn Gly Ser Phe Lys Glu Asn Ser Gln Tyr Gln Pro Ile Lys
 1115 1120 1125

Leu Gln Gly Thr Leu Pro Val Glu Ala Arg Glu Asn Ser Leu Tyr
 1130 1135 1140

Leu Thr Ala Phe Thr Val Ile Gly Ile Arg Lys Ala Phe Asp Ile
 1145 1150 1155

Cys Pro Leu Val Lys Ile Asp Thr Ala Leu Ile Lys Ala Asp Asn
 1160 1165 1170

Phe Leu Leu Glu Asn Thr Leu Pro Ala Gln Ser Thr Phe Thr Leu
 1175 1180 1185

Ala Ile Ser Ala Tyr Ala Leu Ser Leu Gly Asp Lys Thr His Pro
 1190 1195 1200

Gln Phe Arg Ser Ile Val Ser Ala Leu Lys Arg Glu Ala Leu Val
 1205 1210 1215

Lys Gly Asn Pro Pro Ile Tyr Arg Phe Trp Lys Asp Asn Leu Gln
 1220 1225 1230

His Lys Asp Ser Ser Val Pro Asn Thr Gly Thr Ala Arg Met Val
 1235 1240 1245

Glu Thr Thr Ala Tyr Ala Leu Leu Thr Ser Leu Asn Leu Lys Asp
 1250 1255 1260

Ile Asn Tyr Val Asn Pro Val Ile Lys Trp Leu Ser Glu Glu Gln
 1265 1270 1275

Arg Tyr Gly Gly Phe Tyr Ser Thr Gln Asp Thr Ile Asn Ala
 1280 1285 1290

Ile Glu Gly Leu Thr Glu Tyr Ser Leu Leu Val Lys Gln Leu Arg
 1295 1300 1305

Leu Ser Met Asp Ile Asp Val Ser Tyr Lys His Lys Gly Ala Leu
 1310 1315 1320

His Asn Tyr Lys Met Thr Asp Lys Asn Phe Leu Gly Arg Pro Val
 1325 1330 1335

Glu Val Leu Leu Asn Asp Asp Leu Ile Val Ser Thr Gly Phe Gly
 1340 1345 1350

Ser Gly Leu Ala Thr Val His Val Thr Thr Val Val His Lys Thr
 1355 1360 1365

33318.ST25.PCT.txt

Ser Thr Ser Glu Glu Val Cys Ser Phe Tyr Leu Lys Ile Asp Thr
 1370 1375 1380

Gln Asp Ile Glu Ala Ser His Tyr Arg Gly Tyr Gly Asn Ser Asp
 1385 1390 1395

Tyr Lys Arg Ile Val Ala Cys Ala Ser Tyr Lys Pro Ser Arg Glu
 1400 1405 1410

Glu Ser Ser Ser Gly Ser Ser His Ala Val Met Asp Ile Ser Leu
 1415 1420 1425

Pro Thr Gly Ile Ser Ala Asn Glu Glu Asp Leu Lys Ala Leu Val
 1430 1435 1440

Glu Gly Val Asp Gln Leu Phe Thr Asp Tyr Gln Ile Lys Asp Gly
 1445 1450 1455

His Val Ile Leu Gln Leu Asn Ser Ile Pro Ser Ser Asp Phe Leu
 1460 1465 1470

Cys Val Arg Phe Arg Ile Phe Glu Leu Phe Glu Val Gly Phe Leu
 1475 1480 1485

Ser Pro Ala Thr Phe Thr Val Tyr Glu Tyr His Arg Pro Asp Lys
 1490 1495 1500

Gln Cys Thr Met Phe Tyr Ser Thr Ser Asn Ile Lys Ile Gln Lys
 1505 1510 1515

Val Cys Glu Gly Ala Ala Cys Lys Cys Val Glu Ala Asp Cys Gly
 1520 1525 1530

Gln Met Gln Glu Glu Leu Asp Leu Thr Ile Ser Ala Glu Thr Arg
 1535 1540 1545

Lys Gln Thr Ala Cys Lys Pro Glu Ile Ala Tyr Ala Tyr Lys Val
 1550 1555 1560

Ser Ile Thr Ser Ile Thr Val Glu Asn Val Phe Val Lys Tyr Lys
 1565 1570 1575

Ala Thr Leu Leu Asp Ile Tyr Lys Thr Gly Glu Ala Val Ala Glu
 1580 1585 1590

Lys Asp Ser Glu Ile Thr Phe Ile Lys Lys Val Thr Cys Thr Asn
 1595 1600 1605

Ala Glu Leu Val Lys Gly Arg Gln Tyr Leu Ile Met Gly Lys Glu
 1610 1615 1620

33318.ST25.PCT.txt

Ala Leu Gln Ile Lys Tyr Asn Phe Ser Phe Arg Tyr Ile Tyr Pro
 1625 1630 1635

Leu Asp Ser Leu Thr Trp Ile Glu Tyr Trp Pro Arg Asp Thr Thr
 1640 1645 1650

Cys Ser Ser Cys Gln Ala Phe Leu Ala Asn Leu Asp Glu Phe Ala
 1655 1660 1665

Glu Asp Ile Phe Leu Asn Gly Cys
 1670 1675

<210> 53
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 53

Met Val Pro Lys Leu Phe Thr Ser Gln Ile Cys Leu Leu Leu Leu
 1 5 10 15

Gly Leu Leu Ala Val Glu Gly Ser Leu His Val Lys Pro Pro Gln Phe
 20 25 30

Thr Trp Ala Gln Trp Phe Glu Thr Gln His Ile Asn Met Thr Ser Gln
 35 40 45

Gln Cys Thr Asn Ala Met Gln Val Ile Asn Asn Tyr Gln Arg Arg Cys
 50 55 60

Lys Asn Gln Asn Thr Phe Leu Leu Thr Thr Phe Ala Asn Val Val Asn
 65 70 75 80

Val Cys Gly Asn Pro Asn Met Thr Cys Pro Ser Asn Lys Thr Arg Lys
 85 90 95

Asn Cys His His Ser Gly Ser Gln Val Pro Leu Ile His Cys Asn Leu
 100 105 110

Thr Thr Pro Ser Pro Gln Asn Ile Ser Asn Cys Arg Tyr Ala Gln Thr
 115 120 125

Pro Ala Asn Met Phe Tyr Ile Val Ala Cys Asp Asn Arg Asp Gln Arg
 130 135 140

Arg Asp Pro Pro Gln Tyr Pro Val Val Pro Val His Leu Asp Arg Ile
 145 150 155 160

Ile

33318.ST25.PCT.txt

<210> 54
<211> 241
<212> PRT
<213> Homo sapiens

<400> 54

Met Ser Gly Glu Ser Ala Arg Ser Leu Gly Lys Gly Ser Ala Pro Pro
1 5 10 15

Gly Pro Val Pro Glu Gly Ser Ile Arg Ile Tyr Ser Met Arg Phe Cys
20 25 30

Pro Phe Ala Glu Arg Thr Arg Leu Val Leu Lys Ala Lys Gly Ile Arg
35 40 45

His Glu Val Ile Asn Ile Asn Leu Lys Asn Lys Pro Glu Trp Phe Phe
50 55 60

Lys Lys Asn Pro Phe Gly Leu Val Pro Val Leu Glu Asn Ser Gln Gly
65 70 75 80

Gln Leu Ile Tyr Glu Ser Ala Ile Thr Cys Glu Tyr Leu Asp Glu Ala
85 90 95

Tyr Pro Gly Lys Lys Leu Leu Pro Asp Asp Pro Tyr Glu Lys Ala Cys
100 105 110

Gln Lys Met Ile Leu Glu Leu Phe Ser Lys Val Pro Ser Leu Val Gly
115 120 125

Ser Phe Ile Arg Ser Gln Asn Lys Glu Asp Tyr Ala Gly Leu Lys Glu
130 135 140

Glu Phe Arg Lys Glu Phe Thr Lys Leu Glu Glu Val Leu Thr Asn Lys
145 150 155 160

Lys Thr Thr Phe Phe Gly Gly Asn Ser Ile Ser Met Ile Asp Tyr Leu
165 170 175

Ile Trp Pro Trp Phe Glu Arg Leu Glu Ala Met Lys Leu Asn Glu Cys
180 185 190

Val Asp His Thr Pro Lys Leu Lys Leu Trp Met Ala Ala Met Lys Glu
195 200 205

Asp Pro Thr Val Ser Ala Leu Leu Thr Ser Glu Lys Asp Trp Gln Gly
210 215 220

Phe Leu Glu Leu Tyr Leu Gln Asn Ser Pro Glu Ala Cys Asp Tyr Gly
225 230 235 240

Leu

<210> 55
<211> 330
<212> PRT
<213> Homo sapiens

<400> 55

Met Trp Leu Leu Val Ser Val Ile Leu Ile Ser Arg Ile Ser Ser Val
1 5 10 15

Gly Gly Glu Ala Thr Phe Cys Asp Phe Pro Lys Ile Asn His Gly Ile
20 25 30

Leu Tyr Asp Glu Glu Lys Tyr Lys Pro Phe Ser Gln Val Pro Thr Gly
35 40 45

Glu Val Phe Tyr Tyr Ser Cys Glu Tyr Asn Phe Val Ser Pro Ser Lys
50 55 60

Ser Phe Trp Thr Arg Ile Thr Cys Thr Glu Glu Gly Trp Ser Pro Thr
65 70 75 80

Pro Lys Cys Leu Arg Leu Cys Phe Phe Pro Phe Val Glu Asn Gly His
85 90 95

Ser Glu Ser Ser Gly Gln Thr His Leu Glu Gly Asp Thr Val Gln Ile
100 105 110

Ile Cys Asn Thr Gly Tyr Arg Leu Gln Asn Asn Glu Asn Asn Ile Ser
115 120 125

Cys Val Glu Arg Gly Trp Ser Thr Pro Pro Lys Cys Arg Ser Thr Asp
130 135 140

Thr Ser Cys Val Asn Pro Pro Thr Val Gln Asn Ala Tyr Ile Val Ser
145 150 155 160

Arg Gln Met Ser Lys Tyr Pro Ser Gly Glu Arg Val Arg Tyr Gln Cys
165 170 175

Arg Ser Pro Tyr Glu Met Phe Gly Asp Glu Glu Val Met Cys Leu Asn
180 185 190

Gly Asn Trp Thr Glu Pro Pro Gln Cys Lys Asp Ser Thr Gly Lys Cys
195 200 205

Gly Pro Pro Pro Pro Ile Asp Asn Gly Asp Ile Thr Ser Phe Pro Leu
210 215 220

Ser Val Tyr Ala Pro Ala Ser Ser Val Glu Tyr Gln Cys Gln Asn Leu
225 230 235 240

33318.ST25.PCT.txt

Tyr Gln Leu Glu Gly Asn Lys Arg Ile Thr Cys Arg Asn Gly Gln Trp
 245 250 255

Ser Glu Pro Pro Lys Cys Leu His Pro Cys Val Ile Ser Arg Glu Ile
 260 265 270

Met Glu Asn Tyr Asn Ile Ala Leu Arg Trp Thr Ala Lys Gln Lys Leu
 275 280 285

Tyr Leu Arg Thr Gly Glu Ser Ala Glu Phe Val Cys Lys Arg Gly Tyr
 290 295 300

Arg Leu Ser Ser Arg Ser His Thr Leu Arg Thr Thr Cys Trp Asp Gly
 305 310 315 320

Lys Leu Glu Tyr Pro Thr Cys Ala Lys Arg
 325 330

<210> 56
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 56

Met Ile Ser Arg Met Glu Lys Met Thr Met Met Met Lys Ile Leu Ile
 1 5 10 15

Met Phe Ala Leu Gly Met Asn Tyr Trp Ser Cys Ser Gly Phe Pro Val
 20 25 30

Tyr Asp Tyr Asp Pro Ser Ser Leu Arg Asp Ala Leu Ser Ala Ser Val
 35 40 45

Val Lys Val Asn Ser Gln Ser Leu Ser Pro Tyr Leu Phe Arg Ala Phe
 50 55 60

Arg Ser Ser Leu Lys Arg Val Glu Val Leu Asp Glu Asn Asn Leu Val
 65 70 75 80

Met Asn Leu Glu Phe Ser Ile Arg Glu Thr Thr Cys Arg Lys Asp Ser
 85 90 95

Gly Glu Asp Pro Ala Thr Cys Ala Phe Gln Arg Asp Tyr Tyr Val Ser
 100 105 110

Thr Ala Val Cys Arg Ser Thr Val Lys Val Ser Ala Gln Gln Val Gln
 115 120 125

Gly Val His Ala Arg Cys Ser Trp Ser Ser Ser Thr Ser Glu Ser Tyr
 130 135 140

33318.ST25.PCT.txt

Ser Ser Glu Glu Met Ile Phe Gly Asp Met Leu Gly Ser His Lys Trp
 145 150 155 160

Arg Asn Asn Tyr Leu Phe Gly Leu Ile Ser Asp Glu Ser Ile Ser Glu
 165 170 175

Gln Phe Tyr Asp Arg Ser Leu Gly Ile Met Arg Arg Val Leu Pro Pro
 180 185 190

Gly Asn Arg Arg Tyr Pro Asn His Arg His Arg Ala Arg Ile Asn Thr
 195 200 205

Asp Phe Glu
 210

<210> 57
 <211> 466
 <212> PRT
 <213> Homo sapiens

<400> 57

Met Val Arg Ser Val Ala Trp Ala Gly Phe Met Val Leu Leu Met Ile
 1 5 10 15

Pro Trp Gly Ser Ala Ala Lys Leu Val Cys Tyr Phe Thr Asn Trp Ala
 20 25 30

Gln Tyr Arg Gln Gly Glu Ala Arg Phe Leu Pro Lys Asp Leu Asp Pro
 35 40 45

Ser Leu Cys Thr His Leu Ile Tyr Ala Phe Ala Gly Met Thr Asn His
 50 55 60

Gln Leu Ser Thr Thr Glu Trp Asn Asp Glu Thr Leu Tyr Gln Glu Phe
 65 70 75 80

Asn Gly Leu Lys Lys Met Asn Pro Lys Leu Lys Thr Leu Leu Ala Ile
 85 90 95

Gly Gly Trp Asn Phe Gly Thr Gln Lys Phe Thr Asp Met Val Ala Thr
 100 105 110

Ala Asn Asn Arg Gln Thr Phe Val Asn Ser Ala Ile Arg Phe Leu Arg
 115 120 125

Lys Tyr Ser Phe Asp Gly Leu Asp Leu Asp Trp Glu Tyr Pro Gly Ser
 130 135 140

Gln Gly Ser Pro Ala Val Asp Lys Glu Arg Phe Thr Thr Leu Val Gln
 145 150 155 160

33318.ST25.PCT.txt

Asp Leu Ala Asn Ala Phe Gln Gln Glu Ala Gln Thr Ser Gly Lys Glu
 165 170 175

Arg Leu Leu Leu Ser Ala Ala Val Pro Ala Gly Gln Thr Tyr Val Asp
 180 185 190

Ala Gly Tyr Glu Val Asp Lys Ile Ala Gln Asn Leu Asp Phe Val Asn
 195 200 205

Leu Met Ala Tyr Asp Phe His Gly Ser Trp Glu Lys Val Thr Gly His
 210 215 220

Asn Ser Pro Leu Tyr Lys Arg Gln Glu Glu Ser Gly Ala Ala Ala Ser
 225 230 235 240

Leu Asn Val Asp Ala Ala Val Gln Gln Trp Leu Gln Lys Gly Thr Pro
 245 250 255

Ala Ser Lys Leu Ile Leu Gly Met Pro Thr Tyr Gly Arg Ser Phe Thr
 260 265 270

Leu Ala Ser Ser Ser Asp Thr Arg Val Gly Ala Pro Ala Thr Gly Ser
 275 280 285

Gly Thr Pro Gly Pro Phe Thr Lys Glu Gly Gly Met Leu Ala Tyr Tyr
 290 295 300

Glu Val Cys Ser Trp Lys Gly Ala Thr Lys Gln Arg Ile Gln Asp Gln
 305 310 315 320

Lys Val Pro Tyr Ile Phe Arg Asp Asn Gln Trp Val Gly Phe Asp Asp
 325 330 335

Val Glu Ser Phe Lys Thr Lys Val Ser Tyr Leu Lys Gln Lys Gly Leu
 340 345 350

Gly Gly Ala Met Val Trp Ala Leu Asp Leu Asp Asp Phe Ala Gly Phe
 355 360 365

Ser Cys Asn Gln Gly Arg Tyr Pro Leu Ile Gln Thr Leu Arg Gln Glu
 370 375 380

Leu Ser Leu Pro Tyr Leu Pro Ser Gly Thr Pro Glu Leu Glu Val Pro
 385 390 395 400

Lys Pro Gly Gln Pro Ser Glu Pro Glu His Gly Pro Ser Pro Gly Gln
 405 410 415

Asp Thr Phe Cys Gln Gly Lys Ala Asp Gly Leu Tyr Pro Asn Pro Arg
 420 425 430

33318.ST25.PCT.txt

Glu Arg Ser Ser Phe Tyr Ser Cys Ala Ala Gly Arg Leu Phe Gln Gln
435 440 445

Ser Cys Pro Thr Gly Leu Val Phe Ser Asn Ser Cys Lys Cys Cys Thr
450 455 460

Trp Asn
465

<210> 58
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer 212788_x_at

<400> 58
tctggaaggc gtgagccact tcttc

25

<210> 59
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer 212788_x_at

<400> 59
gctacgagcg tctcctgaag atgca

25

<210> 60
<211> 25
<212> DNA
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<220>
<223> Primer 212788_x_at

<400> 60
aaaccccaga cgccatgaaa gctgc

25

<210> 61
<211> 25
<212> DNA
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<220>
<223> Primer 212788_x_at

<400> 61
tgaaagctgc catggccctg gagaa

25

<210> 62
<211> 25
<212> DNA
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<220>
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33318.ST25.PCT.txt

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ctctgtgact tcctggagac tcact	25
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<400> 63	
ggctgggcga gtatctttc gaaag	25
<210> 64	
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<400> 64	
tcgaaaaggct cactctcaag cacga	25
<210> 65	
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agcacgacta agagccttct gagcc	25
<210> 66	
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<400> 66	
gagcccagcg acttctgaag ggccc	25
<210> 67	
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<400> 67	
tccctccagc caataggcag ctttc	25
<210> 68	
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33318.ST25.PCT.txt

<220>
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<400> 68
gcagctttct taactatcct aacaa 25

<210> 69
<211> 25
<212> DNA
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<220>
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<400> 69
agaccgcctt gtaccggaaa atgct 25

<210> 70
<211> 25
<212> DNA
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<220>
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<400> 70
gcaagggtgc ctggtccatc ccatg 25

<210> 71
<211> 25
<212> DNA
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<220>
<223> Primer 40850_at

<400> 71
gtgcctggtc catcccatgg aagtg 25

<210> 72
<211> 25
<212> DNA
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<220>
<223> Primer 40850_at

<400> 72
ccatcccatg gaagtggctg tttgg 25

<210> 73
<211> 25
<212> DNA
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<220>
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<400> 73
tgtttggggc gactgctgtt gcctt 25

33318.ST25.PCT.txt

<210> 74
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<220>
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<400> 74
actgaggccc tctaggagga aagcc 25

<210> 75
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer 40850_at

<400> 75
ctgaggccct ctaggaggaa agccc 25

<210> 76
<211> 25
<212> DNA
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<220>
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<400> 76
gaggccctct aggagggaaag cccag 25

<210> 77
<211> 25
<212> DNA
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<220>
<223> Primer 40850_at

<400> 77
aggccctcta ggagggaaagc ccaga 25

<210> 78
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer 40850_at

<400> 78
ggccctctag gaggaaagcc cagag 25

<210> 79
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer 40850_at

33318.ST25.PCT.txt

<400> 79
gcccctctagg aggaaagccc agagg 25

<210> 80
<211> 25
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<220>
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<400> 80
cctcttaggag gaaagcccag aggga 25

<210> 81
<211> 25
<212> DNA
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<220>
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<400> 81
taggtctccg ccagggctgg cctca 25

<210> 82
<211> 25
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<220>
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<400> 82
agggctggcc tcagttctc ctcaa 25

<210> 83
<211> 25
<212> DNA
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<220>
<223> Primer 40850_at

<400> 83
ggctggcctc agtttctcct caaca 25

<210> 84
<211> 25
<212> DNA
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<220>
<223> Primer 40850_at

<400> 84
agtttctcct caacaggcct ggggg 25

<210> 85
<211> 25
<212> DNA
<213> Artificial

33318.ST25.PCT.txt

<220>
<223> Primer 212639_x_at

<400> 85
gatcaccaat gcttgctttg agccat 25

<210> 86
<211> 25
<212> DNA
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<220>
<223> Primer 212639_x_at

<400> 86
gctttgagcc agccaaaccag atggat 25

<210> 87
<211> 25
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<220>
<223> Primer 212639_x_at

<400> 87
aaatgtgacc ctcgccatgg taaat 25

<210> 88
<211> 25
<212> DNA
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<220>
<223> Primer 212639_x_at

<400> 88
ccgtggtgac gtggttccca aagat 25

<210> 89
<211> 25
<212> DNA
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<220>
<223> Primer 212639_x_at

<400> 89
atgtcaatgc tgccattgcc accat 25

<210> 90
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer 212639_x_at

<400> 90
agtttgtgaa ttgggtcccc actgg 25

33318.ST25.PCT.txt

<210> 91
<211> 25
<212> DNA
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<220>
<223> Primer 212639_x_at

<400> 91
ctcccactgt ggtgcctgggt ggaga 25

<210> 92
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer 212639_x_at

<400> 92
gagagctgtg tgcatgctga gcaac 25

<210> 93
<211> 25
<212> DNA
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<220>
<223> Primer 212639_x_at

<400> 93
gcctttgttc actggtagt gggtg 25

<210> 94
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer 212639_x_at

<400> 94
ggcccgtaa gatatggctg ccctt 25

<210> 95
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer 212639_x_at

<400> 95
ctaattatcc attccttttg gccct 25

<210> 96
<211> 25
<212> DNA
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<220>
<223> Primer 39854_r_at

33318.ST25.PCT.txt

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